

WHAT IS CLAIMED IS:

1. A digital display device comprising:
 - a communication interface adapted to communicate with an archival storage device;
 - a content source adapted to acquire content in an acquisition form;
 - a presentation system for presenting content in a form that is different from the acquisition form;
 - a memory for storing content;
 - a controller adapted to receive acquired content from the content source, to form presentation content that corresponds to the acquired content said presentation content adapted for presentation using the presentation system and to cause the acquired content and the corresponding presentation content to be stored in the memory; and
 - wherein the controller is further adapted to cause the communication interface to transfer acquired content to the archival storage device and to delete the transferred acquired content from the memory.
2. The digital display device of claim 1, wherein the content source is an image capture system.
3. The digital display device of claim 1, wherein the archival storage device is a home computer.
4. The digital display device of claim 1, wherein the archival storage device is an Internet-accessible on-line storage system.
5. The digital display device of claim 1, wherein the acquired content comprises at least one still image.

6. The digital display device of claim 1, wherein the acquired content comprises at least one of a digital still image, an image sequence, graphics, text, audio content and a stream of image information.

7. The digital display device of claim 1, wherein the communication interface uses a memory storage device.

8. The digital display device of claim 1, wherein the communication interface uses a wireless connection.

9. The digital display device of claim 1, wherein the communication interface uses a wired connection.

10. The digital display device of claim 1, wherein the archival storage device has a communication system to acquire content from sources different from the digital display device.

11. The digital display device of claim 1, wherein the archival storage device has a processor adapted to perform at least one of the functions of editing, deleting, and organizing content and a memory to store content.

12. The digital display device of claim 1, wherein the display device displays the content using an organization structure provided by the archival storage device.

13. The digital display device of claim 1, wherein the total storage available in the display device is dynamically divided between the acquisition content and presentation content images depending on the use of the display device.

14. The digital display device of claim 1, further comprising an audio system for acquiring content containing audio information and for presenting audible signals representing audio information contained in acquired content.

15. The digital display device of claim 1 wherein the display comprises an OLED display.

16. The digital display device of claim 1 wherein the controller is adapted to prevent the storage of more than one copy of the same content.

17. The digital display device of claim 1 further comprising an audio system adapted to generate audio content associated with or incorporated within the image content.

18. The digital display device of claim 1 wherein the controller and communication interface cooperate to detect content in the digital display device that is not stored in the archival storage device and to cause the transfer of such content to the archival storage device.

19. The digital display device of claim 1 wherein the controller and communication interface cooperate to detect content that is stored in the archival storage device and that is not stored in the digital display device and to cause transfer of presentation content corresponding to the detected content to the digital display device.

20. The digital display device of claim 1, wherein the processor and the communication interface cooperate to detect differences in digital content organization between the way in which content is stored in the archival storage device and the way in which content is stored in the digital display device, and to

cause the digital display device to organize content in a way that corresponds to the organization of content on the archival storage device.

21. The digital display device of claim 1 wherein the communication interface is adapted to engage a mating interface on a dock for the digital display device.

22. The digital display device of claim 1 wherein the controller is adapted to cause the communication system to transmit presentation content to archival storage device.

23. The display device of claim 1 further comprising a removable memory storage device.

24. The digital display device of claim 1 wherein the communication interface is adapted to communicate with another digital display device.

25. The digital display device of claim 22, wherein all of the content stored in the archival storage device is accessible to each of the display devices.

26. The digital display device of claim 22, wherein the content within the archival storage device is grouped into groups and each of the groups is accessible to less than all of the digital display devices.

27. The digital display device of claim 22, wherein the content within the archival storage device is grouped into groups and some of the groups are accessible to more than one of the digital display devices.

28. The digital display device of claim 1 wherein the content is transferred between more than one display device with one of the more than one display devices being operated as an archival storage device.

29. The digital display device of claim 1 wherein the archival storage device further includes means to organize the digital images and the organizational structure is transferred between portable storage and display devices.

30. The digital display device of claim 1 wherein the archival storage device transmits a signal indicating which images have been successfully transferred and wherein the processor deletes only the successfully transferred images.

31. The digital display device of claim 1 wherein the processor is adapted to receive requests from a user interface to present content and to make a record indicating the number of times that each content has been requested for presentation.

32. The digital display device of claim 31 wherein the record includes information from which the time of presentation can be interpreted.

33. The digital display device of claim 31 wherein the processor maintains a list of less than all of the content with the list containing content selected based upon the number of requests for presentation of each content.

34. The digital display device of claim 31 wherein the processor selects display content for removal from the memory based upon the number of times the content has been presented.

35. A digital imaging system comprising:

a display device having a source of image content adapted to acquire image content in an acquisition form, a controller to temporarily store the image content in the acquisition form in a display device memory, a display for presenting image content, and a communication interface adapted to exchange the acquired image content with an archival storage device, with the archival storage device having a processor that is adapted to automatically input the image content from the display device, to store the acquired image content in an archival memory, and to automatically signal the display device when the acquired image content is stored in the archival memory; and

wherein the acquired image content is converted into presentation content that is in a form that is different from the acquisition form, the presentation content is stored in the display device memory, and the display device is adapted to automatically receive the signal from the archival storage device and to delete the acquired image content from the display device memory in response to the signal.

36. The digital imaging system of claim 35 further comprising a dock adapted to receive the display device and to provide a communication interface between the display device and the archival storage system.

37. The digital imaging system of claim 35 wherein the display device automatically displays sequences of still images.

38. The digital imaging system of claim 35 further including a power source within the display device wherein the dock recharges the power source.

39. The digital imaging system of claim 35 further comprising more than one display device.

40. The digital imaging system of claim 35 wherein content stored in the archival storage device is accessible to each display device.

41. The digital imaging system of claim 39 wherein content within the archival storage device is grouped into groups and each of the groups is accessible to only one of the digital display devices.

42. A digital imaging system of claim 39 wherein the content within the archival storage device is grouped into groups and at least one of the groups is accessible to more than one of the digital display devices.

43. The digital display system of claim 39 wherein content is transferred between digital display devices.

44. The digital imaging system of claim 39 wherein the processor organizes the image content stored in the archival storage device and information characterizing the organizational structure used by the processor to organize the content is transferred to at least one of the digital display devices.

45. The digital imaging system of claim 35 wherein the acquired image content comprises at least one of a digital still image, a motion image, a sequence of digital still images, a digital video stream, graphics and text.

46. The digital imaging system of claim 35 further comprising an image content acquisition device for acquiring image content in an acquisition form, an image content acquisition device for providing image content and providing in the acquisition form and having a means to communicate with the display device so that the display device can acquire the image content obtained by the acquisition device.

47. The digital imaging system of claim 35 wherein the display device further comprises a source of audio content in an acquisition form, wherein the presentation system is adapted to presenting audio content in a form that is different from the acquisition form and wherein acquired audio content is processed to form presentation audio content having a form that is different than the acquisition form and wherein the presentation audio content is stored in the display device memory.

48. The digital imaging system of claim 47 wherein the acquired audio content is stored in the archival storage device and the processor sends a signal that causes the acquired audio content that has been stored in the archival storage device to be deleted from the display device memory.

49. A method for operating a display device having a display and a memory, the method comprising the steps of:

- acquiring image content in an acquisition form;
- storing the image content in the memory;
- processing the acquired image content to form presentation image content having form adapted for presentation on the display;
- storing the presentation image content in the memory;
- transferring the acquired image content to an archival storage device; and
- deleting the acquired image content from the memory.

50. The method of claim 49 wherein the display has a predetermined display resolution and presentation image content has a resolution that is at least 51 percent of the display resolution.

51. The method of claim 49, wherein step of transferring the acquired image content to an archival storage device comprises the steps converting the acquired image content into a signal having a form that can be

transmitted to the archival storage device, transmitting the signal to the archival storage device and receiving a confirmation signal from the archival storage device, wherein the step of deleting the acquired image content from the memory is performed only after the confirmation signal is received.

52. The method of claim 49, further comprising the step of determining whether the archival storage device is a preferred archival storage device and wherein the step of deleting the acquired digital image is performed only where it is determined that the archival storage device is a preferred archival storage device.

53. The method of claim 49, further comprising the step of displaying the presentation image content on the display device.

54. The method of claim 53 further comprising the step of recording the number of times that each content is presented.

55. The method of claim 54 further comprising the step of recording information from which time of presentation can be interpreted.

54. The method of claim 53 further comprising the step of making a list of less than all of the content wherein the content is selected for the list based upon the number of requests for presentation of the content.

55. The method of claim 53 further comprising the step of removing selected content from the display device based upon the number of times that the selected content has been presented.

56. The method of claim 49, wherein the step of acquiring digital images comprises communicating with other devices having digital images stored therein.

57. The method of claim 56, wherein communication with the other devices is performed using at least one of a telecommunication network, a cellular telephone network, the Internet, a wireless communication system, an optical communication system, and a wired connection.

58. The method of claim 49, wherein the acquired image content comprises at least one of a digital still image, a motion image, a sequence of digital still images, and a digital video stream.

60. The method of claim 49, wherein audio content is associated with the acquired image content and wherein the imaging system comprises a transducer for converting audio content into a limited range of audio signals, and wherein the method further comprises the steps of forming a presentation audio content corresponding to the display content said presentation content having a form that is limited to the range of audio signals that the transponder is capable of generating and storing the display image audio signal in association with the display image.

61. The method of claim 49, wherein acquired audio content having an acquired audio sampling rate is associated with acquired image content and wherein the method further comprises the steps of forming a presentation audio content corresponding to the presentation image said presentation image audio content having a sampling rate that is lower than the acquired audio sampling rate and storing the presentation audio content in association with the display image.

62. The method of claim 49 wherein the archival storage device stores transferred acquired image content in a systematic manner, and wherein the step of storing presentation content comprises storing the presentation image content in the systematic manner used by the archival storage device.

63. The method of claim 49, further comprising the steps of determining whether acquired image content stored in the memory has been previously transferred to the archival storage device and wherein the step of transferring acquired image content to the archival storage device is performed only where the acquired digital image content stored in the memory has not been previously transferred to the archival storage device.

64. The method of claim 49, wherein the archival storage device is adapted to receive image content from more than one display device with the image content acquired from each imaging system being grouped separately from image content from other imaging systems.

65. The method of claim 64, further comprising the steps of providing an identifier to the archival storage device from which the archival storage device can determine which group transferred acquired image content is to be stored in.